

## Title (en)

Fluorescent compound, complex, reagent, and specific binding assay employing said reagent.

## Title (de)

Fluoreszierende Verbindung, Komplex, Reagenz und spezifische Bindungstest.

## Title (fr)

Composé fluorescent, complexe, réactif et test de liaison spécifique.

## Publication

**EP 0493745 A1 19920708 (EN)**

## Application

**EP 91121707 A 19911218**

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- JP 40526890 A 19901221

## Abstract (en)

A fluorescent compound, which is readily capable of forming a stable complex with a rare-earth metal ion having fluorescence with satisfactory intensity even in an aqueous system and long fluorescence lifetime when formed a complex with the rare-earth metal ion, a complex of the fluorescent compound and the rare-earth metal ion, and a labelled reagent made therefrom, together with a specific binding assay using said labelling agent. A fluorescent compound expressed by the following formula A, typically exemplified by 2,15-diaza[3,3](2,9)-1,10-phenanthrolinephane-N<2>,N<1><5>-diacetic acid. Formula A <CHEM> <IMAGE>

## IPC 1-7

**C07D 471/22**; **C07F 5/00**; **C12Q 1/68**; **G01N 33/533**; **G01N 33/58**

## IPC 8 full level

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## Citation (search report)

- [A] EP 0180492 A1 19860507 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [A] TETRAHEDRON vol. 43, no. 21, 1987, OXFORD pages 4861 - 4874; S J KEIPERT ET AL: 'Host-guest complexation. 43. Synthesis and binding properties of a macrocycle composed two phenanthrolines and two sulfonamide units'
- [AD] CLINICAL CHEMISTRY vol. 33, no. 11, 1987, WINSTON-SALEM, N.C., USA pages 2000 - 2003; M A CHAN ET AL: 'Time resolved immunofluorometric assay of alpha-fetoprotein in serum and amniotic fluid with a novel detection system'

## Cited by

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